

RUDNIK, S.S., professor; KARTANOV, S.O., kandidat tekhnicheskikh nauk,
redaktor; IVANCHENKO, O.M., redaktor.

[The innovators in Soviet machine construction are the experts
in high-speed metal cutting] Novatory radians'koho mashynobuduvannia -
maistry shvydkisnoho rizannia metaliv. Kyiv [Vyd-va AN URSS] 1953.
39 p. (MLRA 8:2)

(Metal cutting)

NUDENIK, S. S.

36712. Osnovnyye Eksperimental'nyye i Teoreticheskiye Formuly Usiliya Rezaniiya i
Ikh Analiz. Sbornik Trudov Tbilis. In-Ta Inzhenerov Zh-D Transporta Im Lenina, XVII-
XVIII, 1948, c. 13-81.

SO: Ietopis' Zhurnal'nykh Statey Vol. 50, Moskva, 1949

VUL'F, Adol'f Matveyevich; BUDNIK, S.S., prof., retsenzent; LIFSHITS, I.I.,
red., kand. tekhn. nauk; LEIKINA, T.L., red. izd-va; SOKOLOVA, L.V.,
tekhn. red.

[Metal cutting with ceramic tools] Rezanie metallov mineralokerami-
cheskimi reztsami. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry, 1958. 182 p. (MIRA 11:10)

(Cutting tools)

SEMINSKIY, Vitaliy Kupriyevich; RUDNIK, S.S., doktor tekhn.
nauk, retsenzent

[Attachments for machining on lathes] Frisposobleniia
dlia tokarnoi obrabotki. Kiev, Tekhnika, 1964. 129 p.
(MIRA 17:12)

RODNIK, Sergey Sergeevich -- awarded sci degree of Doc Tech Sci for
20-21 Dec 56 defense of his scientific works at the Council, Kiev
Polytech Inst; Prot No 8, 12 Apr 58.

(BRVO, 9-58,27)

SEMINSKIY, V.K.; KUNKIN, Ya.A.; SOLODOV, I.P.; RUDNIK, S.S., professor, redaktor;
PUZANOV, M., redaktor; VAL'CHUK, G.; GOLOVCHENKO, G., tekhnicheskiy re-
daktor.

[Tools and attachments for high-speed lathe operators] Instrumenty i
prispособleniya tokaria-skorostnika. Pod red. S.S.Rudnika. Kiev, Gos.
izd-vo tekhn. lit-ry USSR, 1953. 201 p. (MIRA 8:2)
(Lathes) (Cutting tools)

RUDNIK, S.S.

VUL'F, A.M.; RUDNIK, S.S., professor, retsazent; MOROZOV, V.D., kandidat
tekhnicheskikh nauk, redaktor; PETERSON, M.M., tekhnicheskiiy redaktor

[Principles of metal cutting] Osnovy rezaniia metallov. Moskva, Gos.
nauchno-tekhn. izd-vo mashinostoit. lit-ry, 1954. 326 p. (MLRA 8:4)
(Metal cutting)

RUDNIK, Stanislaw, doc. dr inz.; SZYMCHEL, Adam, mgr inz.

Thermal treatment of carburized parts of steel alloys.
Przegł mech 24 no.5:139-142 10 Mr '65.

1 Head, Department of Physical Metallurgy of the Krakow
Technical University (for Rudnik). 2. Senior Technologist
in the Lenin Steel Works, Nowa Huta (for Szymchel).

RUDNIK, Stanislaw, dr inz.

Distortions of nonmetallic silicate sulfide inclusions. Hutnik
P 29 no.5:177-180 My '62.

1. Politechnika, Krakow.

RUDNIK, V.A.; ALEKSEYEV, L.M.

Role of studying products of silicon, potassium, and sodium
metasomatism in clarifying the geology of areas being studied.
Inform.sbor.VSEGEI no.50:53-56 '61. (MIRA 15:8)
(Soviet Far East—Metasomatism)
(Soviet Far East—Geology)

RUDNIK, V.A. :

Stratigraphic boundary between Jurassic and Cretaceous sediments in the Bukhar-Khiva area. Geol. nefti i gaza 4 no.5:34-38 My '60.

(MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy geolog-razvedochnyy neftyanoy institut.

(Gissar Range region--Geology, Stratigraphic)

RUDNIK, V.A.

Determination of the quantitative change of a substance in
metasomatic processes. Zap.Vses.min.ob-va 91 no.6:683-699
'62. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii
institut (VSEGEI), Leningrad.
(Metasomatism) (Rocks--Analysis)

RUDNIK, V.A.

Concerning the balance of materials in metasomatic processes.
Izv.vys.ucheb.zav.; geol. i razv. 8 no.2:45-49 F '65.

(MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskii Institut.

RUDNIK, V.Ya., kand. tekhn. nauk; MARTYSHKIN, B.S., kand. tekhn. nauk, st. nauchn. sotr., otv. red.; KOSTOM'YAN, A.Ya., red.izd-va; LOMILINA, L.N., tekhn. red.

[Vibration insulation of coal preparation and by-product coking equipment] Vibraizoliatsiia ugleobogatitel'nogo i koksokhimicheskogo oborudovaniia. Moskva, Izd-vo "Nedra," 1964. 99 p. (MIRA 17:4)

1. Tsentral'nyy nauchno-issledovatel'skiy institut stroitel'-nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Martyshkin).

RUDNIK, V.Ya., kand.tekhn.nauk; ZHUKOV, A.A., inzh.; BURYAK, P.G., inzh.

Antivibration mountings for vibrational inertia screens. Prom. stroi.
40 no.2:37-38 '62. (MIRA 15:7)

(Screens (Mining)—Vibration)

IZBASH, Yuriy Vladimirovich; RUDNIK, V.Ya., kand. tekhn. nauk,
otv. red.; SEMASHKO, Yu.Yu., tekhn. red.

[Foundation engineering] Osnovaniia i fundamenty. Khar'kov,
Izd-vo Khar'kovskogo gos. univ., im. A.M.Gor'kogo, 1961. 315 p.
(MIRA 15:9)

(Foundations)

~~RUDNIK~~, Viktor Yakovlevich, kand.tekhn.nauk; SOROKIN, Ye.S., doktor tekhn.
nauk, otv.red.; ZVORYKINA, L.N., red.izd-va; SHKLYAR, S.Ya.,
tekhn.red.

[Standard methods for designing ceilings of coal preparation
plants for dynamic loads] Tipovye dinamicheskie raschety pere-
krytii zdaniy ugleobogatitel'nykh fabrik. Moskva, Ugletekhizdat,
1959. 166 p. (MIRA 12:12)
(Coal preparation--Equipment and supplies) (Damping (Mechanics))
(Strains and stresses)

МОННИК, Я. В.

Лесопильные рамы; конструкция, расчет и эксплуатация. Киев, Mashgiz, 1950.

206 p. illus.

Bibliography: p. 205.

Saw frames; design, calculations and operations.

DLC: TS850.R3

SC: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

RUDNIK, V.Ya., kand.tekhn.nauk

Vibration control of coal preparation equipment. Ugol'
Ukr. 4 no.5:6-7 My '60. (MIRA 13:8)
(Coal preparation--Equipment and supplies)
(Screens(Mining)--Vibration)

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
B C										B-I-L									
Metallurgical extraction of vanadium from the Padoahgor titanium magnetites of the Karelian Autonomous Republic. P. P. RUDNIKOV (Soviet Met., 1934, 6, 339-346).—The ore (Fe 28, TiO₂ 8, V₂O₅ 0.34%) was conc. and reduced by C to pig Fe containing 0.8% V and slag containing up to 50% TiO₂. When the pig Fe was blown in a Bessemer converter a slag containing 12% V₂O₅ was produced. The highly viscous TiO₂-rich slags caused difficulty. Ch. Abs. (c)																			
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9

Metallurgical extraction of vanadium from the Pudozh
or titanium magnetites of the Karelian Autonomous
Republic. P. P. Rudnikov. *Sov. Met.* 6, 330 to
1964. These ores contain approx. Fe 28, TiO₂ 8 and
V₂O₅ 0.11%. In large scale lab. exps. they were roasted
and reduced by C to pig iron contg. 0.8% V and slag
contg. up to 50% TiO₂. If this pig iron is blown in a
Bessemer converter a slag contg. 12% V₂O₅ is produced.
There was some difficulty due to high viscosity of slags
contg. large amts. of TiO₂. H. W. Rathmann

ASB SLA METALLURGICAL LITERATURE CLASSIFICATION

BADAR'YAN, G.G.; TYUTIN, V.A.; CHEREPUSHKIN, S.D.; ZUZIK, D.T.;
 KHODASEVICH, B.G.; FRAYER, S.V.; GUSAROV, Ye.I.; KAZANSKIY,
 A.M.; KASSIROV, L.N.; KAPAYEV, S.A.; AMANOV, V.A.;
 VASIL'YEV, N.V.; BUGAYEV, N.P.; SAPIL'NIKOV, N.G.; KASTORIN,
 A.A.; RUDNIKOV, V.M.; YAKOVLEV, V.A.; PERESTYKIN, V.I.;
 ISAYEV, A.P.; KUZ'MICHEV, N.N.; IL'IN, S.A.; PRONIN, V.A.;
 LUK'YANOV, A.D.; SHAKHOV, Ya.K.; IL'ICHEV, A.K., kand. sel'-
 khoz. nauk; KOGAN, A.Ya.; TSYNKOV, M.Yu.; BABIY, L.T.;
 GORBUNOV, I.I.; KOVALEV, A.M.; ROMANCHENKO, G.P.; BRODSKAYA,
 M.L., red.; IVANOVA, A.N., red.; GUREVICH, M.M., tekhn. red.;
 TRUKHINA, O.N., tekhn. red.

[Economics of agriculture] Ekonomika sotsialisticheskogo sel'-
 skogo khoziaistva; kurs lektsii. Moskva, Sel'khozizdat, 1962.
 710 p. (MIRA 15:10)

(Agriculture—Economic aspects)

TIPONIN, M.A., kand. tekhn. nauk; SENCHENKO, G.I., kand. sel'-
khoz. nauk; ARINSHTEYN, A.I., kand. sel'khoz. nauk;
GORSHKOV, P.A., doktor sel'khoz. nauk; ZHUKOV, M.S.,
kand. sel'khoz. nauk; DEMKIN, A.P., kand. sel'khoz. nauk;
KRASHENINNIKOV, N.A., kand. sel'khoz. nauk; GORODNIY, N.G.,
doktor sel'khoz. nauk; REFYAKH, I.I., nauchn. sotr.; PIL'NIK,
V.I., kand. sel'khoz. nauk; KHANIN, M.D., kand. sel'khoz.
nauk; TSELIK, V.Z., st. nauchn. sotr. [deceased]; KOZINETS,
N.I., nauchn. sotr.; ZHALNINA, L.S., nauchn. sotr.;
LYASHENKO, S.N., kand. sel'khoz. nauk; GONCHAROV, G.I., inzh.;
BUYANOV, V.I., inzh.; RUDNIKOV, V.N., st. nauchn. sotr.;
BLOKHINA, V.V., red.; PROKOF'YEVA, A.N., tekhn. red.; SOKOLOVA, N.N.,
tekhn. red.

[Hemp] Konoplia. Moskva, Sel'khozizdat, 1963. 462 p.
(MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut lubyanykh
kul'tur (for all except Blokhina, Prokof'yeva, Sokolova).

(Hemp)

KUL'BAKA, P.L., Geroy Sovetskogo Soyuz; RUDNIKOV, V.N., nauchnyy
sotrudnik

Speed-up the construction of retting shops in hemp factories.

Tekst.prom. 22 no.2:18-20 F '62.

(MIRA 15:3)

1. Direktor Glukhovskogo pen'kozavoda (for Kul'baka).

2. Vsesoyuznyy nauchno-issledovatel'skiy institut lubyanykh
kul'tur (for Rudnikov).

(Hemp industry)

FOMIN, B.I., inzhener; RUDNIKOVA, R.A., inzhener.

Centrifugal casting of large bronze objects. Lit. proizv. no.6:
26-28 Je '56. (MLRA 9:8)
(Centrifugal casting) (Bronze founding)

SVETITSKO, V. A., RUDEKOVA, V. N.

Hemp

One collective farm's experience in cultivating hemp varieties that ripen at different times. Dost. sel'-Khoz No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

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One collective farm's experience in cultivating hemp varieties that ripen at different times. Dost. sel'-Khoz. no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1957, Uncl.
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RUDNIKOWA, Irena, RUDNIK, Jan, RYBAKOWA, Maria, SZPUNAR, Jerzy

Localization and evolution of tuberculous lesions in tracheobronchial and lymph nodes. Gruzlica 26 no.6:453-460 Jun 58

1. Z Kliniki Pediatricznej A.M. w Krakowie Kierownik: prof. dr
T. Giza Z Kliniki Laryngologicznej A.M. Kierownik: prof. dr J. Miodonski
i z Dziecięcego Ośrodka Sanatoryjno-Prewentoryjnego w Rabce Kierownik:
dr J. Rudnik. Adres: Rabka, Dziecięcy Ośrodek Sanatoryjno-Prewentoryjny.

(TUBERCULOSIS, LYMPH NODES, in inf. & child.

tracheobronchial, localization & evolution (Pol))

EMAN, A.; RUDNITSKAYA, A.

Establishing norms for the number of auxiliary workers in coal pits.

Sots.trud no.9:69-74 S '57.

(MLRA 10:9)

(Coal mines and mining--Production standards)

RUDNITSKY, A. YB.

"The Distribution of Leukocytes in the Organisms of Laboratory Rabbits Put to Death by Various Methods." Cand Med Sci, L'vov State Medical Inst, L'vov, 1953. (RZhBiol, No 3, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

DOTSENKO, N.S.; HUDNITSKAYA, A.Yu.

Primary pulmonary cancer as shown by material of the Lvov clinic.
Vrach.delo no.7:71-73 J1 '60. (MIRA 13:7)

1. L'vovskiy meditsinskiy institut.
(LUNGS--CANCER)

GLUKHEN'KIY, T.T., prof.; BARVINSKIY, S.A., kand.meditsinskikh nauk;
RUDNITSKAYA, A.Yu., kand.meditsinskikh nauk; URIN, B.M., kand.meditsin-
skikh nauk

Clinical and morphological analysis of the protracted treatment of
thyrotoxicosis with 6-methylthiouracil. Vrach. delo no.8:12-17 Ag
'60. (MIRA 13:9)

1. Kafedra gospiatal'noy terapii i patologicheskoy anatomii L'vovskogo
meditsinskogo instituta.
(THYROID GLAND—DISEASES) (URACIL)

RUDNITSKAYA, A.Yu., kand.med.nauk

Pulmonary adenomatosis. Vrach. delo no.2:135-138 F '62.

(MIRA 15:3)

1. Kafedra patologicheskoy anatomii (zav. - prof. Ye.I.

Pal'chevskiy) L'vovskogo meditsinskogo instituta.

(LUNGS--TUMORS)

1. The first part of the report is devoted to the study of the

problem of the existence of solutions of the system

of equations (1) for $t \in [0, T]$.

(MIRA 18:4)

2. The second part of the report is devoted to the study of the

problem of the existence of solutions of the system

of equations (1) for $t \in [0, T]$ when the vector

is given.

KOVTUNOVICH, L.G.; RUDETSKAYA, A.Yu. (Odessa)

Significance of the plasma cells in the process of antibody formation during ionizing radiation. Arkh. pat. no.12:15-21:62 (MIRA 18:1)

1. Iz Odesskogo instituta epidemiologii i mikrobiologii imeni I.I.Mechnikova (direktor - prof. N.D. Anina-Radchenko) i kafedry patologicheskoy anatomii (zav. - prof. Ye.I. Pal'chavskiy) L'vovskogo meditsinskogo instituta.

ED 011 249

2. Isolation of the influenza virus A2 and BMD virus 6. Vop. virus.
10-11.2.1970-2001 M.-Ap. 1965. (MIRA 18:10)

А. В. Шенников, вирусологист, Институт Д.И.Хавановского АМН СССР и 6-я клиническая больница Министерства здравоохранения СССР, Москва.

Клиника. С.С. Купчихина, Е.И. Кудряшова, Л.П.

Клиника aspects of primary bilateral cataract. С.С. Кудряшова, Е.И. Кудряшова, Л.П.
М. 195. (MIRA 18:10)

1. С-ва Клиническая больница (главный врач С.С. Кудряшова), Москва.

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[Signature]

Physics 10
 16 Use of infrared spectroscopy for the investigation of minerals. E. S. Rudnitskaya. *Zapiski Vsesoyuz. Mineralog. Obshchestva* 83, 407-12 (1950). The instruments available in U.S.S.R. are briefly described, especially the one- and double-beam self-recording infrared spectrometers. They are used for the detn. chiefly of the OH groups and of free H₂O in silicate minerals, also for the detn. of the characteristic absorption bands of the anions CO₃²⁻, SO₄²⁻, etc., and for the distinction of calcite and dolomite. Often, the infrared spectrometric method proved to be superior in sensitivity to the x-ray diffraction method. For layer structure minerals the use of polarized infrared radiation is particularly important for the detn. of the crystallographic anisotropy character of a given mineral (e.g., in brucite, micas, clay minerals). The use of the infrared spectrometer for the distinction of polymorphic modifications is illustrated for the varieties of SiO₂. Grain size effects are discussed; as a general rule, the max. grain size of powder samples for the infrared investigation of a mineral should not be above 5 μ for obtaining sharp peaks in the infrared transmittance curves. W. Rittel

BEZGUBOV, A.I.; BYVSHIKH, Yu.I.; DEMENT'YEV, P.K.; KISLAYKOV, Ya.M.;
KOVALEV, L.V.[deceased]; KOTLYAR, V.N., prof.; KRUGLOVA, V.G.;
RUDNITSKAYA, L.S.; TSIRUL'NIKOV, V.M.; VARZANOVA, A.N., red.;
VLASOVA, N.A., tekhn. red.

[Uranium in ancient conglomerates] Uran v drevnikh konglome-
ratakh. Moskva, Gosatomizdat, 1963. 187 p. (MIRA 16:4)
(Uranium) (Conglomerate)

GONCHAROV, S.V.; KHURGES, L.L.; RUDNITSKAYA, M.I.

Mechanizing the pouring of sulfuric acid. Transp. i karan. nefti
no.8:16-19 '63. (MIRA 17:3)

1. Groznenskiy filial Nauchno-issledovatel'skogo instituta po kompleksnoy avtomatizatsii proizvodstvennykh protsessov v neftyanoy i khimicheskoy promyshlennosti.

RUDNETSKAYA, K. Z., GUSEYNOV, M. S., ULYANOVA, N. E., ROZENBERG, G. YA.
and RUTBERG, R. A. (USSR)

"A Method for the Isolation of Protein Preparations from Donor
Blood."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

RUDNITSKAYA, M.Z.; SKURKOVICH, S.V. (Moskva)

Electrophoretic study of anti-burn sera. Pat. fiziol. i
eksp. terap. 6 no.1:84-85 Ja-F '62. (MIRA 15:3)

1. Iz Tsentral'nogo ordena Lenina instituta gematologii
i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR
prof. A.A. Bagdasarov [deceased]) Ministerstva zdravookhraneniya
SSSR.

(BURNS AND SCALDS)

(SERUM)

(ELECTROPHORESIS)

ROZENBERG, G.Ya., prof.; HUDNITSKAYA, M.Z.

Hemostatic transfusion preparations obtained from donor blood
(antihemophilic plasma, antihemophilic globulin, fibinogen.
Probl. gemat. i perel. krovi 8 no.6:3-9 Je'63 (MIRA 17.4)

1. Iz TSentral'nogo instituta gematologii i perelivaniya krovi
(dir. - dotsent A.Ye. Kiselev) Ministerstva zdravookhraneniya
SSSR.

RUDNITSKAYA, M.Z.

Simplified modification of the method for obtaining thrombin from the plasma of donor blood. Probl. gemat. i perel. krovi 5 no.2:42-44 F '60. (MIRA 14:5)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR.
(THROMBIN)

BLOKH, G.S.; RUDNITSKAYA, R.I.; KUBICH, A.V.

Effect of the volumetric weight of asbestos cement on its resistance to frost. Trudy NIIAsbestsementa no.17:3-13 '63.

(MIRA 17:10)

OSTROVSKIY, I.A.; ORLOVA, G.P.; RUDNITSKAYA, Ye.S.

Stoichiometry in the dissolving of water in alkali-aluminum
silicate melts. Dokl. AN SSSR 157 no.5:1146-1148 Ag '64.

(MIRA 17:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR. Predstavleno akademikom
N.V. Belovym.

RUDNITSKAYA, Ye.S.

Using infrared spectrometry for studying minerals. Zap.Vses.min.
ob-va 85 no.3:407-412 '56. (MLRA 9:11)

1. Institut Geologicheskikh nauk Akademii nauk SSSR.
(Spectrometry)

RUDNITSKAYA E S

Physical Properties of Synthetic Corundum. A Symposium (Fizicheskie Svoistva Sinteticheskogo Korunda). Edited by A. V. SHUBNIKOV, M. V. KLASSEN-NERJUDOVA, AND S. V. GRUM-GRZHIMAILO. *Izdat. Khim. Akad. Nauk SSSR*, No. 8, 350 pp. (1953). Price R10.—The symposium was held in 1950 to give to the synthetic corundum industry a complete survey of the methods and results of scientific investigations, especially concerning optical and mechanical properties. The boule has been chiefly studied because an accurate knowledge of crystallographic orientation is the basis of every working process. The optical characteristics and structural properties of real (mosaic) crystals are therefore emphasized. The instruments used for the investigations are partly newly constructed and may be particularly recommended for studies of the physical properties of monocrystals other than those of synthetic corundum. References are given with each paper. Results of laboratory research on different properties of synthetic corundum crystals. S. V. GRUM-GRZHIMAILO AND M. V. KLASSEN-NERJUDOVA. *Ibid.*, pp. 5-12.—The influence of impurities, e.g., Cr_2O_3 , MgO , SiO_2 , Fe_2O_3 , TiO_2 , V_2O_5 , CaO , MnO , and CuO , is discussed. Basic facts of the crystallography and structure of corundum crystals. E. S. RUDNITSKAYA. *Ibid.*, pp. 13-20. Thermal constants of Al_2O_3 . L. G. SHENTSOVA. *Ibid.*, pp. 21-26.—Thermochemical data are compiled. Properties of isomorphous mixes of Al_2O_3 and Cr_2O_3 . S. V. GRUM-GRZHIMAILO. *Ibid.*, pp. 27-34.—The dimensions of the elementary cells and the fusion points of the crystalline solutions are given, together with data on densities and refractive indices, absorption spectra, and pleochroic phenomena.

Densities of synthetic corundum, especially the effects of crystalline solutions with Cr_2O_3 . E. N. SLAVNOVA AND I. N. SONIN. *Ibid.*, pp. 35-40. Short review of the electrical properties of corundum. I. M. SN'VESTROVA. *Ibid.*, pp. 41-42.—Conductance as a function of temperature for white sapphire and the resistance of ceramic corundum bodies are discussed. Cr content of rubies. P. I. PASHKOVSKAYA. *Ibid.*, pp. 43-40.—Analytical data are given on the introduction of Cr_2O_3 into synthetic corundum from $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$ and special effects of small additions of CaO and MgO (from sulfates) on the color of rubies are described. Cr content of the batch and of synthetic ruby. A. A. KISELEV AND L. M. DOLGOVA. *Ibid.*, pp. 47-50.—The losses in Cr_2O_3 from the batch to the powder and the finished ruby composition are discussed. Data on spectral analysis of corundum. S. V. GRUM-GRZHIMAILO. *Ibid.*, pp. 51-56.—Domestic synthetic sapphires are compared with foreign products. The Russian samples are purer, containing less Fe, Cu, and Ca; foreign synthetic corundum products often contain Ti and V, and two samples showed Na. Only Cr and Mn are higher in domestic corundum products than in the foreign material. Measurement of the refractive indices of synthetic corundum and of corundum batches. N. M. MELANKHOLIN. *Ibid.*, pp. 57-76.—The immersion method of I. V. Obreimov (1919) for the determination of very small changes in refractive index is described. Problems of the heating of corundum batches. E. G. VALYASHKO, A. A. KISELEV, AND V. A. LINTSEKIN. *Ibid.*, pp. 77-88.—Special studies were made on the transition of $\gamma\text{-Al}_2\text{O}_3$ formed from alum, to corundum with increasing temperature and time of heat exposure.

OVER

POLUSHINA, T.V.; RUDNITSKAYA, M.Z.; GRIGOR'YEVA, O.V.

Antishock fluid on the basis of plasma albumin in donor blood.
Probl. gemat. i perel. krovi 5 no.3:52-55 Mr '60. (MIRA 14:5)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Bogdasarov).
(SHOCK) (ALBUMINS---THERAPEUTIC USE)

SHEVCHENKO, Ya.O.; KURDYUMOV, S.V., redaktor, professor; RUDNITS'KA, P.P.,
redaktor; RAKHLINA, M.P., tekhnicheskii redaktor.

[Local fuel resources of the Ukrainian S.S.R. and ways of using them]
Mistsevi palvyni resursy URSR i shliakhy ikh vykorystannia. Kyiv,
Vyd-vo Akademii nauk Ukrain's'koi RSR, 1953. 25 p. (MLRA 8:2)
(Ukraine--Fuel)

GANUSETS, O.I. [Hanusets', O.I.]; MAKARENKO, O.A.; KOROID, O.S., kand.
ekonom.nauk, otv.red.; RUDNITSKAYA, P.P. [Rudnyts'ka, P.P.], red.;
NAZARENKO, S.G. [Nazarenko, S.H.], red.; KADASHEVICH, O.O.,
tekh.n.red.

[Birth of a new, communist society] Parostky novoho, komunistychnoho.
Kyiv, Vyd-vo Akad.nauk URSR, 1960. 245 p.

(MIRA 13:12)

1. Akademiia nauk URSR, Kiyev. Viddil suspil'nykh nauk.
(Communism) (Efficiency, Industrial)

BELYANKIN, Fedor Pavlovich [BIELIANKIN, F.P.], akademik; DRAYGOR, D.A.
[Draihor, D.A.], doktor tekhn.nauk, otv.red.; RUDNITS'KA, P.P.,
red.; SIVACHENKO, Ye.K., tekhred.

[Basic conceptions of mechanics in the process of their develop-
ment] Osnovni poniattia mekhaniky v protsesi ikh rozvytku.
Kyiv, Vyd-vo Akad.nauk URSR, 1958. 30 p. (MIRA 12:10)

1. Akademiya nauk USSR; Akademiya stroitel'stva i arkhitektury
USSR (for Belyankin).

(Mechanics)

BELYANKIN, Fedor Pavlovich [Bieliiankin, F.P.], akademik; DRAYGOR, D.A.
[Draihor, D.A.], doktor tekhn.nauk, red.; RUDNITS'KA, P.P., red.;
SIVACHENKO, IE.K., tekhred.

[Development of the basic principles of mechanics] Osnovni
poniattia mekhaniky v protsesi ikh rozvytku. Kyiv, Vyd-vo Akad.
nauk URSR, 1958. 30 p. (MIRA 12:3)

1. Akademiya nauk USSR i Akademiya stroitel'stva i arkhitektury
USSR (for Belyankin).

(Mechanics)

DOTSENKO, N.S.; HUDNITSKAYA, A.Yu.

Mistakes in the intravital diagnosis of primary pulmonary cancer.
Vrach.delo no.6:591-594 Je '60. (MIRA 13:7)

1. L'vovskiy meditsinskiy institut.
(LUNGS--CANCER)

RUDNITSKAYA, V. P.

"Case of Leukiosarcoma of Meckel's Diverticulum Complicated by Gastric Fibroma and
Cancer," Khirurgiya, No. 3, 1949. Mbr., Faculty, Surgical Clinic, Saratov Med. Inst., -c1949.

SKATYNSKIY, Viktor Iosifovich; RUDNITSKAYA, Ye., red.; KORSKEVICH, A.,
red.; ZELENKOVA, Ye., tekhn.red.

[Handbook for the builder] Karmannyi spravochnik stroitelia.
Izd.3. Kiev, Gos.izd-vo lit-ry po stroit. i arkhitekt. USSR,
1959. 512 p. (MIRA 12:11)
(Building)

GERNER, M.M.; RUDNITSKAYA, Ye.A.

Determination of the solidification point of waxes, waxlike
substances, and compositions. Zav. lab. 29 no.6:733 '63.
(MIRA 16:6)

1. Khar'kovskiy zavod zubovrachebnykh materialov.
(Waxes) (Solidification)

KRASOVITSKIY, B.M.; RUDNITSKAYA, Ye.A.; MATSEKOVICH, R.M.

Vat dyeing method for methyl methacrylate polymers. Uch.zap. KHGU
71:255 '56. (MLRA 10:2)
(Dyes and dyeing) (Methacrylic acid)

RUDNITSKAYA, Ye.L.

A.O.Kovalevskii's letters to E.D.Nozhin. Trudy Inst. ist. est. i
tekh. 36:262-216 '61. (MIRA 14:2)
(Kovalevskii, Aleksandr Onufrievich, 1840-1901)
(Nozhin, Nikolai Dmitrievich, 1843-1866)

RUSSIAN JOURNAL, 1957, 2, 4184

USSR/Cosmochemistry - Geochemistry. Hydrochemistry

P.

Ats Jour : Referat Zhur - Khimiya, No 2, 1957, 4184

Author : Gritsayenko, G.S., Berkhin, S.I., Rudnitskaya, Ye.S.

Inst : Academy of Sciences USSR

Title : Dependence of the Composition of Clayey Minerals on Nature of the Environment

Orig Pub : Sb. Kora vyvetrivaniya. No 2, M., AN SSSR, 1956, 101-106

Abstract : On studying the mineralogy of the zone of oxidation of some polymetallic deposits, the following was ascertained: 1) kaolinite is found in the sections of most intensive development of sulfides -- in an acidic environment (pH < 7); 2) halloysite -- with a relatively slight development of sulfides -- in a neutral environment (pH 6.5-7.5) and 3) montmorillonite and nontronite -- only in lateral rocks containing no sulfide phenocrysts -- in an alkaline environment (pH 7.5-8). There is presented a brief characteristic of the above-listed minerals including typical thermograms, roentgenograms and electron microphotographs.

Card 1/1

- 72 -

SHLYUKOVA, Z.V.; SOKOLOVA, M.N.; YAKOVLEVSKAYA, T.A.; RUDNITSKAYA, Ye.S.;
BUROVA, T.A.

Labuntsovite from the Khibiny Mountains. Zap. Vses. min.
ob-va. 94 no.4:430-436 '65. (MIRA 18:9)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR, Moskva.

RUBINIKAVA, Ye. S.

"Development of Methods for Measuring Absorption
in Ultraviolet Light and Their Application for
Investigating Synthetic Ruby and Smoky Quartz."
Thesis for degree of Cand. Physico-Mathematical
Sci. Sub 28 Jun 50, Inst of Crystallography, Acad
Sci USSR.

Summary 71, 4 Sep 52, Dissertations Presented
for Degrees in Science and Engineering in Moscow
in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

1. MELANKHOLIN, N. M.; RUDNITSKAYA, YE. S.
2. USSR 600
4. Quartz
7. Optical properties of a Rochon quartz prism, Trudy Inst. krist, No. 7, 1952.

Electron micro-copy Lab, Inst. Geol Sci AS USSR

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. RUDNITSKAYA, YE. S.
2. USSR 600
4. Quartz
7. Measuring the absorption of dichroic objects in polarized ultra-violet light with the aid of quartz optics, Trudy Inst. krist, No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

RUDNITSKAYA, YE. S.

PA 245T104

USSR/Physics - Crystallography 21 Nov 52

"Peculiarities of the Spectra of Smoky Quartz as an Indication to the Structure of Its F Centers," N. Ye. Vedeneyeva and Ye. S. Rudnitskaya, Inst of Crystallography, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol 87, No 3, pp 361-364

Investigate the spectral curves of three samples of quartz (natural, discolored, and artificially colored) and the influence of the levels of

245T104

adhesion and state of activators on the absorption of the ordinary and extraordinary waves. Submitted by Acad G. S. Landsberg 1 Oct 52.

245T104

RUDNITSKAYA, Ye.S.

Principal data on the crystallography and structure of corundum
crystals. Trudy Inst.krist. no.8:13-20 '53. (MLRA 7:5)
(Corundum)

GRUM-GRZHIMAYLO, S.V.; RUDNITSKAYA, Ye.S.

Pleochroism and absorption of corundum crystals in the ultraviolet
spectral band. Trudy Inst.krist. no.8:129-138 '53. (MLRA 7:5)
(Corundum) (Spectrum, Ultraviolet) (Absorption of light)

GRUM-GRZHIMAYLO, S.V.; TOLSTIKHINA, K.I.; RUDNITSKAYA, Ye.S.

Research in luminescence of minerals. Zap.Vses.min.ob-va 84
no.4:445-452 '55. (MIRA 9:2)

1. Institut kristallografii i Institut geologicheskikh nauk
Akademii nauk SSSR, Moscow.
(Luminescence) (Mineralogy)

GRITSAYENKO, G.S.; BERKHIN, S.I.; RUDNITSKAYA, Ye.S.

Relation of clayey minerals to the nature of the environment.
Kora vyvetr. no.2:101-106 '56. (MLBA 9:8)
(Clay) (Mineralogy)

SUDENLOVA, M.N.; BURNOVA, I.A.; RUDNITSKAYA, Ye.S.

Echerbakovite of the Khibiny Mountains. Zap.Vses.min.ob-va 93
no.6:641-654 '64. (MIRA 18:4)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimi (IGEM) AN SSSR, Moskva.

CHUKHROV, F.V.; RUDNITSKAYA, Ye.S.; MOLEVA, V.A.; YERMILOVA, L.P.

Phosphate allophanes. Izv. AN SSSR. Ser. geol. 30 no.3:
51-57. Mr '65. (MIRA 18:3)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimi AN SSSR, Moskva.

SEMENOV, Ye.I.; KATAYEVA, Z.T.; RUDNITSKAYA, Ye.S.

New data on yttritungstite. Dokl. AN SSSR 163 no.2:447-449 J1 '65.
(MIRA 18:7)

1. Submitted January 22, 1965.

CHUKHROV, F.V.; BERKHIN, S.I.; YERMILOVA, L.P.; MOLEVA, V.A.;
RUDNITSKAYA, Ye.S.

Allophanes. Izv. AN SSSR. Ser. geol. 29 no.4:3-19 Ap'64.
(MIRA 17:5)

1. Institut geologii rudnykh mestorozhdeniy, petrografii,
mineralogii i geokhimii AN SSSR, Moskva.

NASEDKIN, V. V.; RUDNITSKAYA, Ye. S.; PANESH, V. I.

"Some peculiarities of the structure of natural hydrous volcanic glasses."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,
16-21 Mar 64.

GRITSAYENKO, G.S.; RUDNITSKAYA, Ye.S.; GORSHKOV, A.I.; KUSHNIR, Yu.M.,
otv. red.; MERGASOV, G.G., red. izd-va; SHEVCHENKO, G.N., tekhn.
red.

[Electron microscopy of minerals; equipment, research methods,
and preparation techniques] Elektronnaia mikroskopiia minera-
lov; apparatura, metody issledovaniia i tekhnika prepariro-
vaniia. Moskva, Izd-vo Akad.nauk SSSR, 1961. 131 p.
(MIRA 15:2)

(Minerals)

(Electron microscopy)

GRITSAYENKO, G.S.; RUDNITSKAYA, Ye.S.

Electron microscopy laboratories in the German Democratic
Republic. Zap. Vses. min. ob-va 87 no.2:245-250 '58.

(MIRA 11:9)

1. Deystvitel'nyy chlen Vsesoyuznogo mineralogicheskogo obshchestva
(for Gritsayenko).

(Germany, East--Electron microscopy)

GRITSAYENKO, G.S.; RUDNITSKAYA, Ye.S.

Electone microscopy apparatus in Czechoslovakia. Zap. Vses. min.
ob-va 89 no.1:138-139 '60. (MIRA 13:10)
(Czechoslovakia--Electron microscopy)

CA 11C

PROCESSES AND PROPERTIES INDEX

Hypobromite method for the determination of residual nitrogen in blood. Yu. M. Rudnitskaya and E. I. Gannurikh. *Lab. Prakt.* (U. S. S. R.) 1937, No. 2, 15-16. A simplified, exact bromometric detn. method of N in blood is given in which no NH_4OH distn. is required. The following reagents are used: 30% soln. CCl_3COOH , 20% soln. H_2SO_4 , 8% soln. NaOH , 10% soln. NaHPO_4 , soln. of Br in NaBr (100 g. NaBr + 3 cc. Br in 1000 cc. H_2O), 0.5% soln. KI, 0.5 N soln. $\text{Na}_2\text{S}_2\text{O}_4$, 10% soln. H_2SO_4 , 1% soln. starch, 1% aq. soln. of methyl red. The error was found to be 1.5-3% when the sample contained 0.0005-0.1580 mg. N. W. R. Horn

AS 6 SL 8 METALLURGICAL LITERATURE CLASSIFICATION

STANDARD NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

RUDNITSKAYA, Yu.M.

Comparative effect of artificial radon, carbon dioxide, and
hydrogen sulfide baths on carbohydrate metabolism. Vop.
kur. fizioter. i lech. fiz. kul't. 25 no. 5:437-441 S-O '60.
(MIRA 13:10)

1. Iz Tsentral'nogo instituta kurortologii (dir. - kandidat
meditsinskikh nauk G.N. Pospelova).
(CARBOHYDRATE METABOLISM) (RADON—PHYSIOLOGICAL EFFECT)
(HYDROGEN SULFIDE—PHYSIOLOGICAL EFFECT)
(CARBON DIOXIDE—PHYSIOLOGICAL EFFECT)

RUDNITSKAYA, Z. V.

"The Importance of Roentgenological Investigation in the Diagnosis of Ulcerous Diseases (During the Stage When the Ulcer Is Present)." Cand Med Sci, Chair of Roentgenology, Chair of Hospital Therapy, Kiev Order of Labor Red Banner Medical Inst imeni A. A. Bogomolets, Kiev, 1953. (KL, No 13, Mar 55)

SO: Sum. No. 670, 29 Sep 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

RUDNITSKAYA, Z.V.

[Importance of X-ray studies in diagnosing peptic ulcer during the developmental stage] Znachenie rentgenologicheskogo issledovaniia v diagnostike iazvennoi bolezni; v stadii nalichii iazvy. Kiev, Kievskiy meditsinskiy institut imeni A.A.Bogomol'tsa. (MLRA 10:5)
(PEPTIC ULCERS)

RUDNITSKIY, A., kand. arkhitektury

Reconstruction of blocks with a dense capital construction.

Zhil. stroi. no.9:18-21 '65.

(MIFA 18:11)

RUDNITSKIY, A., kand.arkhitektury

Improving streets in sections with buildings of few stories.
Zhil.stroi. no.4:15-17 Ap '60. (MIRA 13:8)
(Lvov--Landscape gardening)

RUDNITSKIY, A., kand.arkhitektury

Planning a village. Zhil. stroi. no.10:17-18 '62. (MIRA 16:1)
(Rural planning)

S/263/62/000/002/007/009
1004/1204

AUTHOR: Rudnitskiy, A. A.

TITLE: Stability of noble metal thermocouples

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. Izmeritel'naya tekhnika, no. 2, 1962, 45, abstract 32.2.307. "Tr. institutov Kom-ta standartov, mer i izmerit. priborov pri Sov. Min. SSSR", no. 42 (102), 1960, 39-43

TEXT: The calibration characteristics and stability of indication of high temperature thermocouples of noble metals were investigated. The stability of thermoelectric characteristics of different thermoelectrodes was checked at 1550 and 1800°C in ovens employing a heater of platinum plus 30% rhodium alloy. The thermocouples were preliminarily annealed at 1200°C during 2 hours. The thermocouple was confined in duo-channel ducts of different kinds of ceramic. The temperature was measured by the same thermocouples. After a longer exposure the thermal-emf of the thermocouples was determined at the reference points of the temperature of melting of palladium (1552°C) if the tests were carried out at 1550°C and platinum (1769 °C) for tests at 1800°C.

The thermocouple PR 30/6 at 1150°C insulated by corundum in an oxidizing atmosphere may operate 230 hours, allowing for an error which does not exceed 1%, at 1800°C its operation is unstable. The thermo-

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Stability of noble metal thermocouples

S/263/62/000/002/007/009
1004/1204

couple PR 100/20 is stable in channels of corundum, in oxidizing atmosphere for 1500 hours within error limits of 1 %. at 1800°C in oxidizing atmosphere in channels of corundum, beryllium oxide and sinoxal the thermocouple operates for 100 hours with an accuracy of $\pm 1\%$. The thermoelectric properties of a thermocouple composed of platinum + 20% rhodium + 10% iridium and of platinum + 20% rhodium are stable but at 1800°C its thermoelectric properties are less stable than those of PR 100/200 thermocouple. The thermocouple consisting of iridium + 60% rhodium and iridium possesses a calibration curve close to a straight line and it operates in channels of aluminum oxide, or beryllium oxide in oxidizing atmosphere at 1800°C within error limits of 0.8%; the upper operation limit of this thermocouple is between 2100 and 2200°C. There are 3 figures, and 7 references.

[Abstracter's note: Complete translation.]

Card 2/2

BEZDORODOVA, G.B.; HUDNITSKIY, A.I.; SAL'NIKOV, G.P., redaktor; VUYEK,
M., tekhnicheskiy redaktor.

[Motorist's calendar for 1955] Kalendar' avtomobilista na 1955 god.
Kiev, Gos.i zd-vo tekhn.lit-ry USSR, 1955. 191 p. (MLRA 8:8)
(Automobile drivers--Handbooks, manuals etc)

KOSTENKO, Georgiy Nikolayevich [Kostenko, H.M.]; RUDNITSKIY, A.I.
[Rudnyts'kyi, A.I.], kand.tekhn.nauk, red.; DOTSENKO, M.,
red.; MATUSEVICH, S., tekhn.red.

[Engineering thermodynamics] Tekhnichna termodynamika.
Pid red. A.I. Rudnyts'koho. Kyiv, Derzh.vyd-vo tekhn.
lit-ry URSR, 1958. 419 p. (MIRA 12:8)
(Thermodynamics)

RUDNITSKIY, A. L.

25756 RUDNITSKIY, A. L. Mochalo dlya Podvyazki Vinogradnoi lozy.
Vinodeliye i Vinogradarstvo SSSR, 1948, No. 6, s. 46-47.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948.

RUDNITSKIY, A. I.

Agriculture

Production and utilization of wine containers. Moskva, Pishchepromizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November, 1952~~1953~~, Uncl.

RUDNITSKIY, A. M.

"Architecture of Regional Agricultural Exhibitions." Cand Arch Sci, L'vov Poly-
technic Inst, Min Higher Education USSR, L'vov, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (12)

SO: SUM No. 556, 24 Jun 55

RUDNITSKIY, A.M.; SEREDYUK, I.I.; SEREDYUK, S.P.

Modern city building and geography. Vest. Mosk. un. Ser. 5:
Geog. 20 no.5:41-46 S-O '65. (MIRA 18:12)

1. L'vovskiy gosudarstvennyy universitet. Submitted February 5,
1965.

USSR / Cultivated Plants. Fruits, Berries

L-6

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22833

Author : Rudnitskiy, A.N.

Inst : Not Given

Title : Cherry-plum fall in Kirov Oblast.

Orig Pub : Sad i ogorod, 1956, No 7, 63

Abstract : No abstract

Card : 1/1

RUDNITSKIY, A.S.

Selection of a radioactive isotope for use in testing materials by
means of back-scattered gamma radiation. Atom.energ. 10 no.4:400-
402 Ap '61. (MIRA 14:4)

(Gamma rays--Scattering)

S/089/61/010/004/023/027
B102/B205

21.7100

AUTHOR: Rudnitskiy, A. S.

TITLE: Choice of a radioisotope to be used in testing materials with the help of backscattered gamma radiation

PERIODICAL: Atomnaya energiya, v. 10, no. 4, 1961, 400-402

TEXT: A radiochemical method based on the use of backscattered ($180 \pm 10^\circ$) gamma radiation is suited for determining the thickness or density of materials (blanks and parts) having a thickness of some 10 mm.

$I(x) = J(x)/J(0)$ is measured, where $J(0)$ is the radiation intensity without test sample, and $J(x)$ the intensity of scattered radiation with a test sample of thickness (or density) x . $I(x)$ as a function of x can be

expressed by $A(1 - e^{-x\mu_z})$, where A is a constant, μ_z the total attenuation factor of directly inciding rays, μ_{00} , and of backscattered rays

($\mu_z = \mu_{00} + \mu_{1800}$). The constant A contains the factors μ/μ_z and $I(\infty)$.

Accordingly, there exists a "saturation thickness", $x = x_{lim}$, above which

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S/089/61/010/004/023/027
B102/B205

Choice of a...

$I(x)$ is no longer a function of x and, consequently, thickness cannot be measured any more. At the thickness $x_{opt} \approx 0.5 x_{lim}$, the error in thickness measurement is reduced to a minimum. These values depend not only on E_γ but also on the atomic number, Z , of the substance concerned. At $20 \leq Z \leq 35$, $\partial I / \partial x$ attains the highest value. For the purpose of testing materials having a certain atomic number, it is necessary to choose the optimum values of $\partial I / \partial x$ and $E_{\gamma 00}$, that means, the most convenient isotope. It is shown that $\partial I / \partial x \sim \mu_\Sigma$, i.e., $\sim 1/E_{\gamma 00}$. The isotopes in question have to meet the following requirements: 1) Their gamma spectrum should be simple and monochromatic; 2) E_γ must correspond to x_{lim} and x_{opt} ; 3) their half-life should be large. Such isotopes are compiled in Table 1. For these isotopes, x_{lim} was calculated from the formula:
$$x_{lim} = (2 \div 4) / (\mu_{00} + \mu_{1800}) \quad (2).$$
 Within the range of $0.3 \leq E \leq 2.0$ Mev, x_{lim} can likewise be calculated from the empirical formula:

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S/089/61/010/004/023/027

B102/B205

Choice of a...

$x_{lim} = mE^k$ (x_{lim} in mm, $E_{\gamma 00}$ in Mev). The following values hold for m and k :

	Z = 8	13	26	29
m	58	41	24	20
k	0.2	0.2	0.25	0.25

Co^{60} and Cs^{137} seem to be most promising. The values of x_{lim} calculated from (2) and experimental values obtained for Cs^{137} and Cr^{51} in 1959 are collected in Table 2. Table 3 gives the maximum intensity of backscattered radiation, $I(x)_{max}$, for several materials. $I(x)_{max}$ is the limit of $I(x)$ for $x = x_{lim}$. The curves for x_{lim} and $I(x)_{max}$ show peaks in the range of $20 \leq Z \leq 35$, which is ascribed to the prevalence of Compton scattering. There are 3 tables and 3 Soviet-bloc references.

SUBMITTED: June 21, 1960

Card 3/6

L 15393-66 EWT(1)/EWA(h)

ACC NR: AP6000950

SOURCE CODE: UR/0286/65/000/022/0036/0037

AUTHOR: Rudnitskiy, B. L.

ORG: none

TITLE: A measuring converter of alternating voltage to direct current. Class 21, No. 176325 /announced by Krasnodar Plant of Electrical Measuring Instruments (Krasnodarskiy zavod elektroizmeritel'nykh priborov)/

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 36-37

TOPIC TAGS: measuring instrument, rectifier

ABSTRACT: This Author Certificate presents a measuring converter of alternating voltage to direct current by a vacuum diode (see Fig. 1).

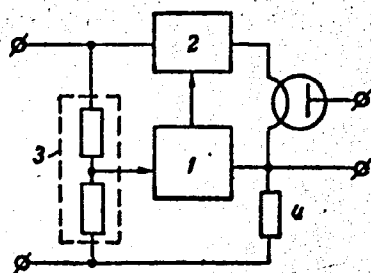


Fig. 1. 1 - Unbalance amplifier; 2 - nonlinear controlled resistance; 3 - linear divider of the input signal; 4 - linear resistance.

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UDC: 621.314.58.083

I. 15393-66

ACC NR: AP6000950

The converter is designed to increase the transmission coefficient and to eliminate the influence of variations of the internal resistance of the signal source. It has an unbalance amplifier and a nonlinear controlled resistance. This resistance is connected in series with the diode heating filament. The value of the controlled resistance is determined by the output signal of the unbalance amplifier. The difference of voltages from the linear divider of the input signal and the linear resistance, connected in series with the diode heating filament, is fed to the input of this unbalance. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 05Oct64

BC
Card 2/2